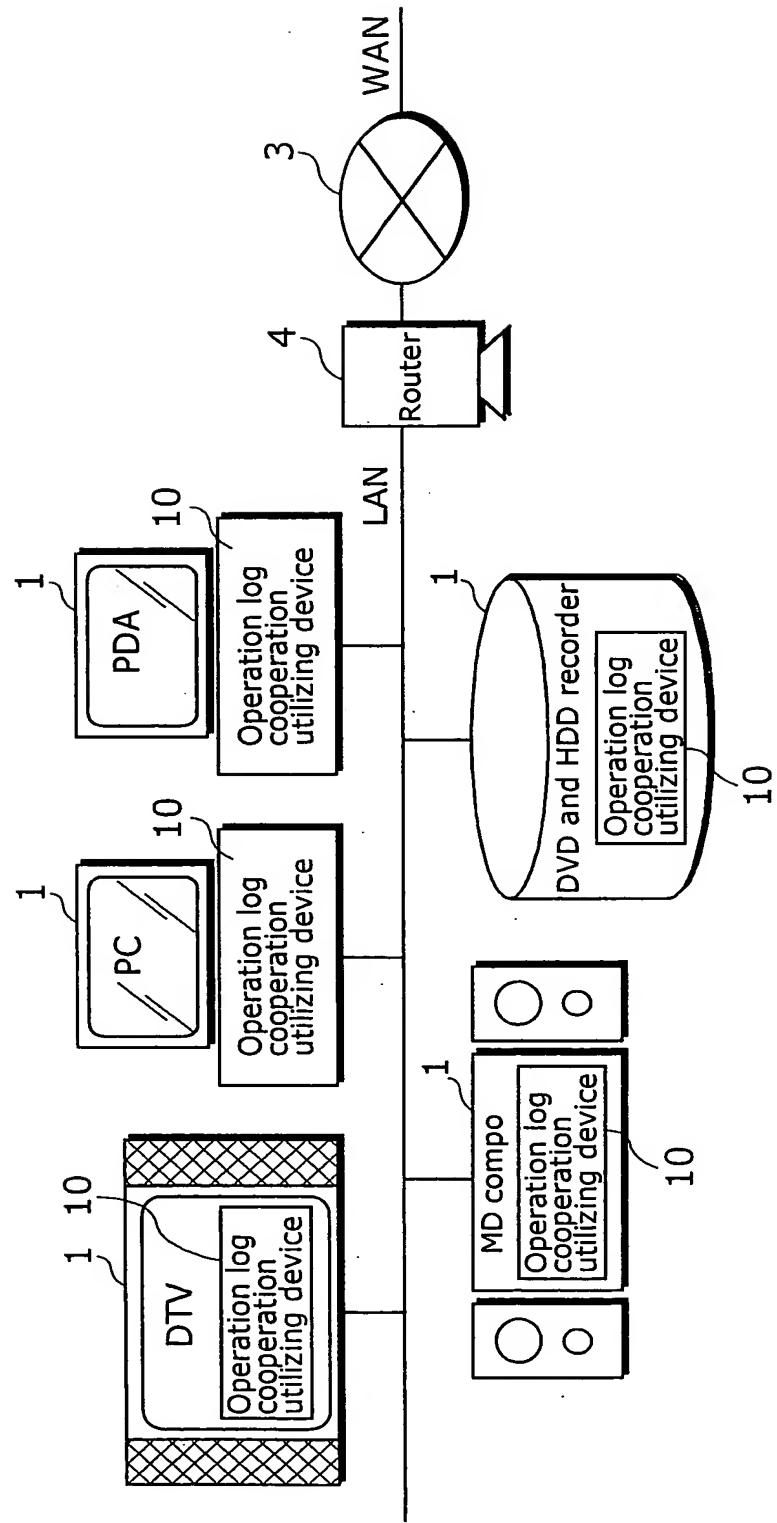
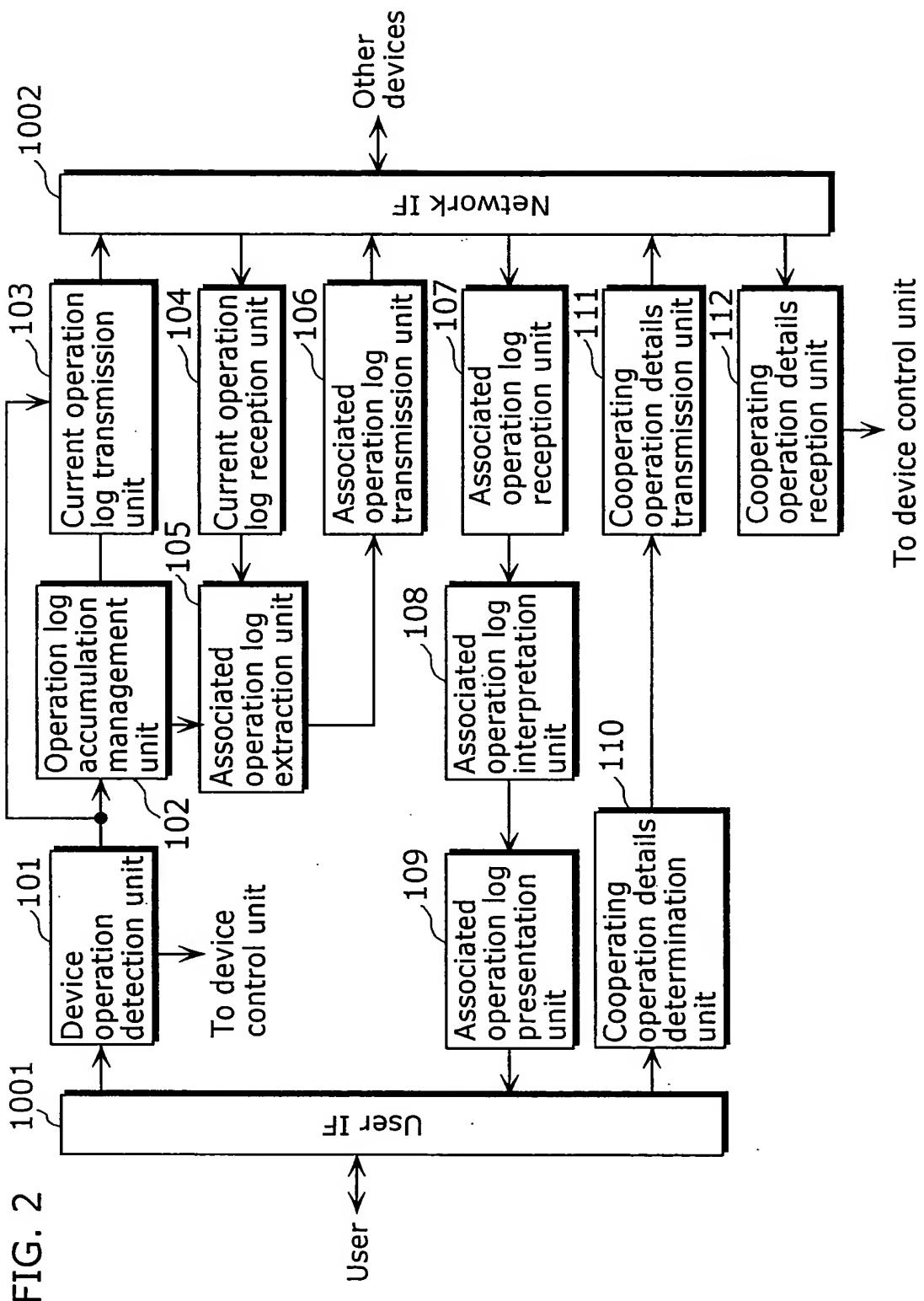


FIG. 1





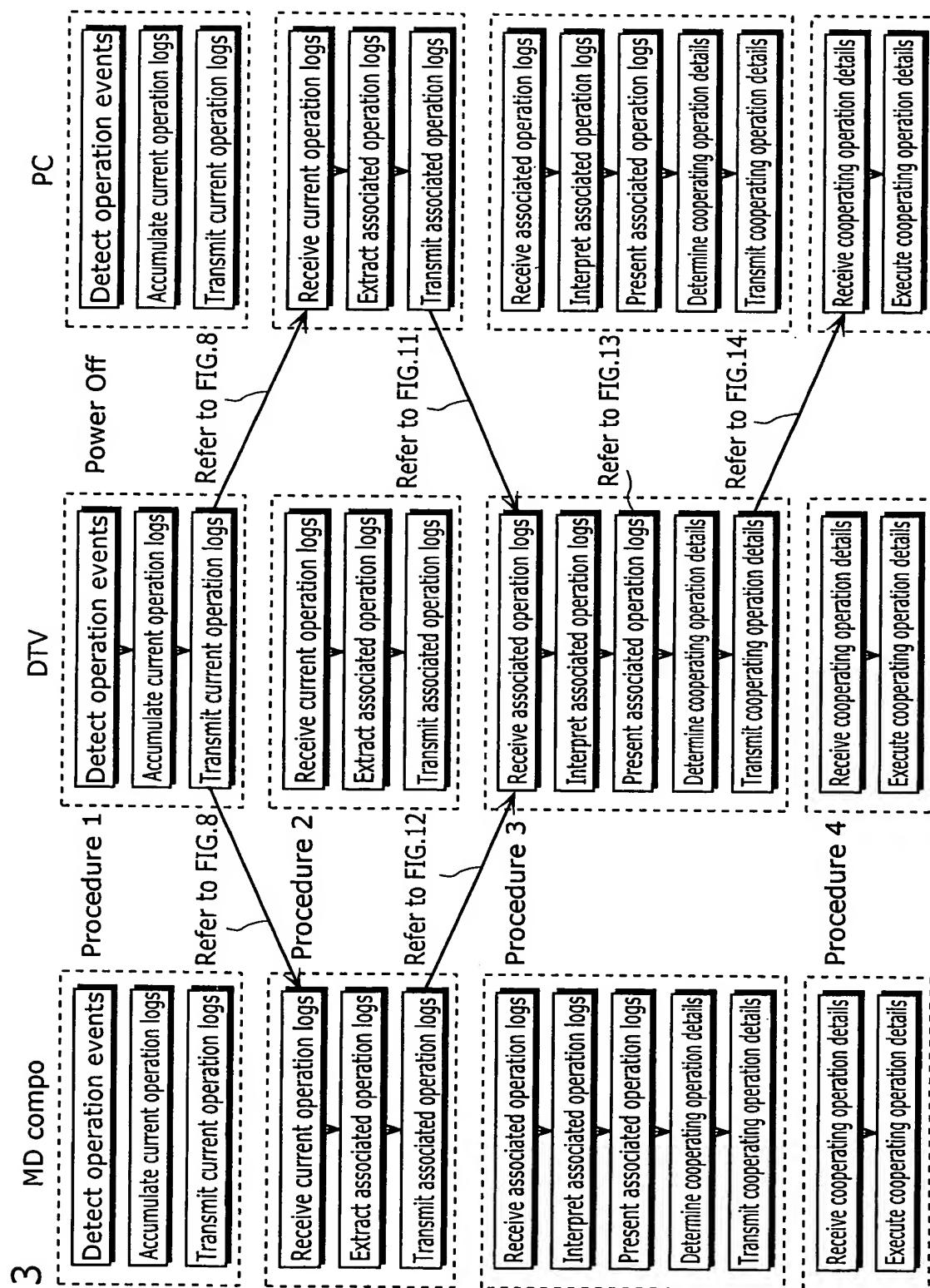


FIG. 4

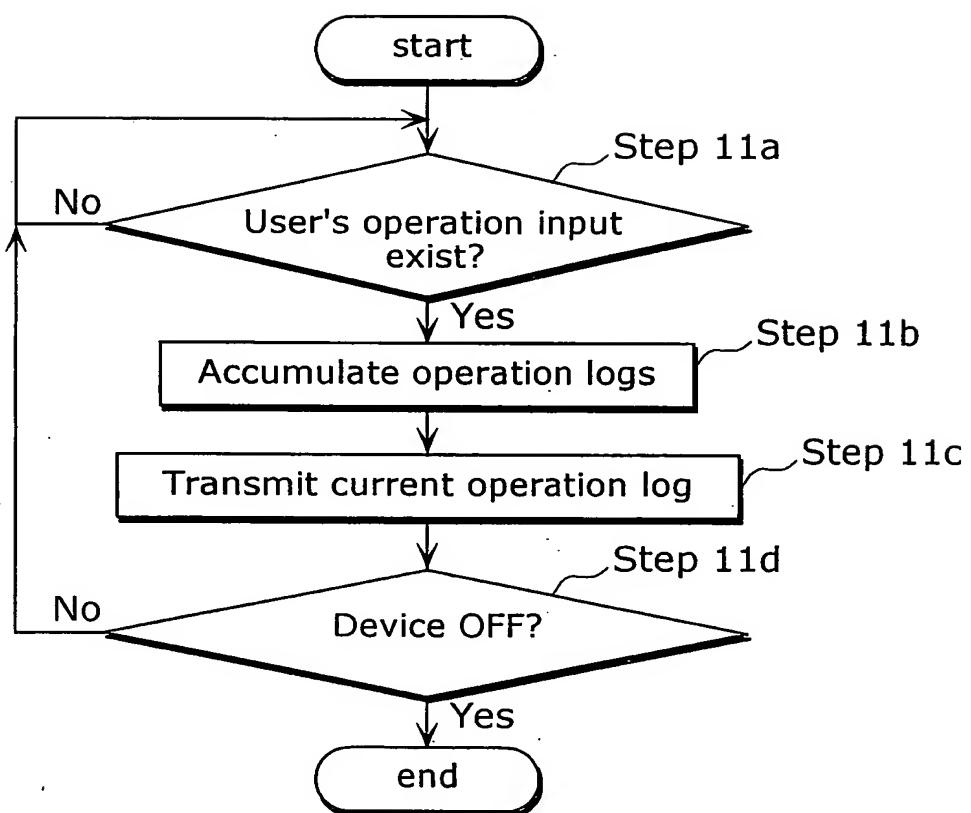


FIG. 5

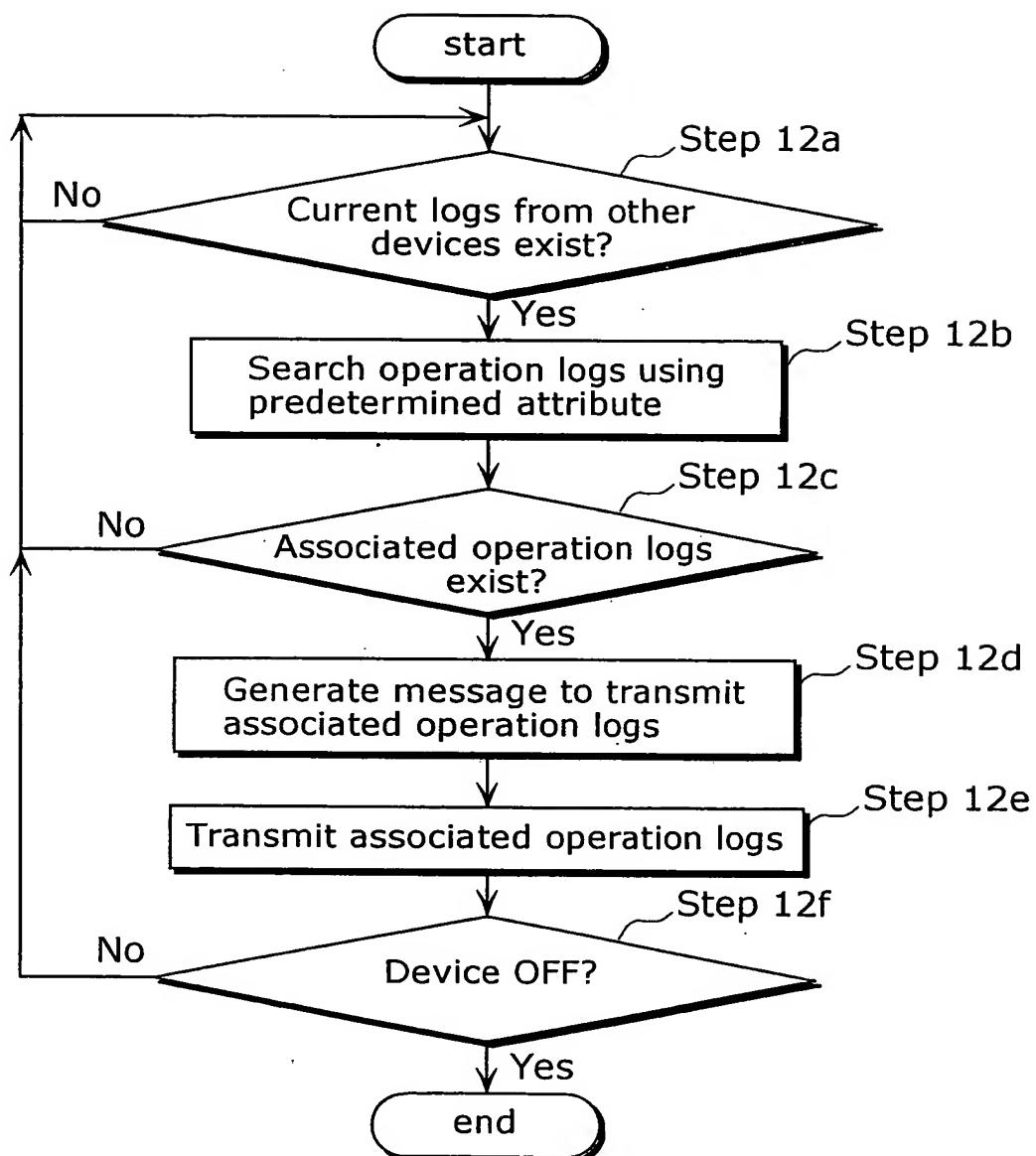
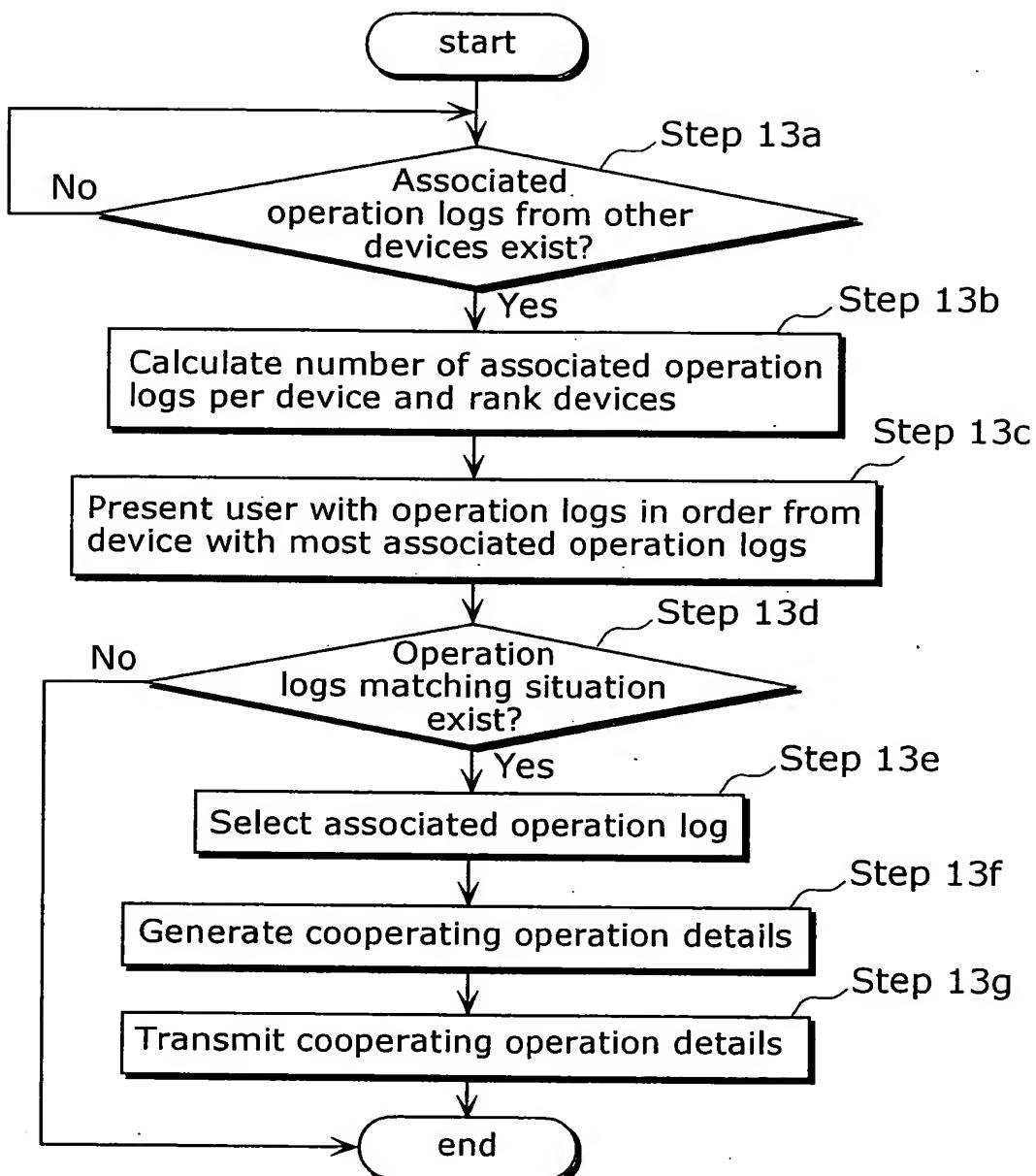


FIG. 6



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FIG. 7

- Date and time identifier <Time>
yyyy/mm/dd/hh/mm/ss:Example) 2002/09/25, Wed, 21:00:00
- Operation identifier <Command>
PowerOn, PowerOff, VolUp, VolDown
Play, Record, Reserve, Send, Receive, Save, Delete, Update, Copy, Move, Boot, Activate
- User identifier <UserID>
xxx@yyy.co.jp
- Device identifier <DeviceID>
- Device level identifier <DevicePerformanceLevel>
- Controller identifier <Controller ID>
- User cooperation identifier <PersonTo>, <PersonFrom>
- Device cooperation identifier <DeviceTo>, <DeviceFrom>
- Location identifier <Location>
- Cost identifier <Cost>
- Application identifier <ApplicationID>
- Media identifier <MediaID>
- Content identifier <ContentID>
- Service identifier <ServiceID>
- Object identifier <ObjectID>

FIG. 8

```
<OperationLog>
<DeviceID> Dtv. xxx-net </DeviceID>
<DevicePerformanceLevel> Device-L4 </DevicePerformanceLevel>
<Item>
<Time> 2002/09/25/Wed/20:57:00 </Time>
<Duration> 00:56:10 </Duration>
<Command> play </Command>
<ContentID> program://x-ch. osaka. tv/20020925210000-20020925215300 </ContentID>
</Item>
<Item>
<Time> 2002/09/25/Wed/21:53:10 </Time>
<Command> PowerOff </Command>
</Item>
</OperationLog>
```

FIG. 9

```
<OperationLog>
<DeviceID> PC_XXX-net </DeviceID>
<DevicePerformanceLevel> Device-L5 </DevicePerformanceLevel>

<Item>
<Time> 2002/09/18/Wed/21:54:13 </Time>
...
<Item>
<Time> 2002/09/19/Thu/21:53:12 </Time>
...

<Item>
<Time> 2002/09/24/Tue/21:53:04 </Time>
<Command> Boot </Command>
</Item>
<Item>
<Time> 2002/09/24/Tue/21:55:20 </Time>
<Command> Activate </Command>
<ApplicationID> Mailer-XXX </ApplicationID>
</Item>
<Item>
<Time> 2002/09/24/Tue/22:02:10 </Time>
<Command> Send </Command>
<PersonTo> XXX@YYY.CO.JP </PersonTo>
</Item>

</OperationLog>
```

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FIG. 10

```
<OperationLog>
<DeviceID> MD. xxx-net </DeviceID>
<DevicePerformanceLevel> Device-L2 </DevicePerformanceLevel>

<Item>
<Time> 2002/09/21/Sat/21:53:11 </Time>
<...>

<Item>
<Time> 2002/09/22/Sun/21:57:52 </Time>
<Command> PowerOn </Command>
</Item>
<Item>
<Time> 2002/09/22/Sun/21:57:55 </Time>
<Command> Tuner </Command>
<MediaID> FM </MediaID>
<ContentID> program://FM. osaka/20020925220000-20020925225700 </ContentID>
</Item>

</OperationLog>
```

FIG. 11

```
<RelatedLog>
<DeviceTo> DTV. xxx-net </DeviceTo>

<OperationLog>
<DeviceID> PC. xxx-net </DeviceID>
<DevicePerformanceLevel> Device-L5 </DevicePerformanceLevel>

<Item>
<Time> 2002/09/18/Wed/21:54:13 </Time>
. . .

<Item>
<Time> 2002/09/19/Thu/21:53:12 </Time>
. . .

<Item>
<Time> 2002/09/24/Tue/21:53:04 </Time>
<Command> Boot </Command>
</Item>
<Item>
<Time> 2002/09/24/Tue/21:55:20 </Time>
<Command> Activate </Command>
<ApplicationID> Mailer-xxx </ApplicationID>
</Item>
<Item>
<Time> 2002/09/24/Tue/22:02:10 </Time>
<Command> Send </Command>
<PersonTo> xxx@yyy. co. jp </PersonTo>
</Item>
</OperationLog>

</RelatedLog>
```

FIG. 12

```
<RelatedLog>
<DeviceTo> DTV. xxx-net </DeviceTo>

<OperationLog>
<DeviceID> MD. xxx-net </DeviceID>
<DevicePerformanceLevel> Device-L2 </DevicePerformanceLevel>

<Item>
<Time> 2002/09/21/Sat/21:53:11 </Time>
<...>

<Item>
<Time> 2002/09/22/Sun/21:57:52 </Time>
<Command> PowerOn </Command>
</Item>
<Item>
<Time> 2002/09/22/Sun/21:57:55 </Time>
<Command> Tuner </Command>
<MediaID> FM </MediaID>
<ContentID> program://FM. osaka/20020925220000-20020925225700 </ContentID>
</Item>
</OperationLog>

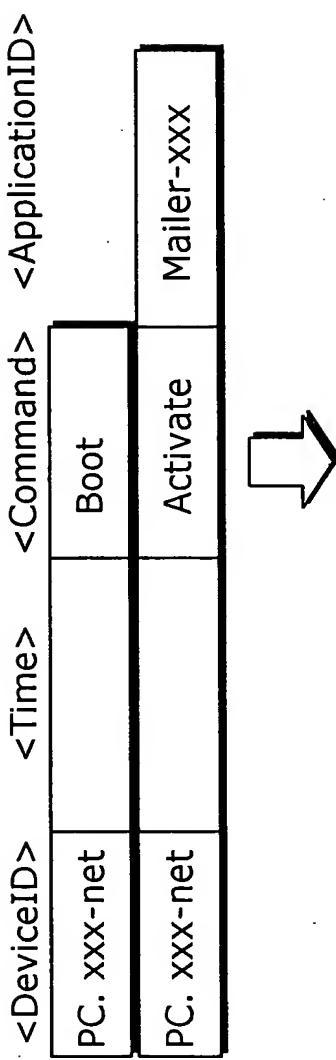
</RelatedLog>
```

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FIG. 13

<DeviceID>	<Time>	<Command>	<ApplicationID>
PC. xxx-net	2002/09/24/ Tue/21:53:04	Boot	
PC. xxx-net	2002/09/24/ Tue/21:55:04	Activate	Mailer-xxx
PC. xxx-net	2002/09/23/ Mon/21:55:22	Boot	
PC. xxx-net	2002/09/23/ Mon/21:57:04	Activate	Mailer-xxx
PC. xxx-net	2002/09/20/ Fri/21:53:50	Boot	
PC. xxx-net	2002/09/20/ Fri/21:55:50	Activate	Mailer-xxx
PC. xxx-net	2002/09/19/ Thu/21:53:12	Boot	
PC. xxx-net	2002/09/19/ Thu/21:55:12	Activate	Mailer-xxx
PC. xxx-net	2002/09/18/ Wed/21:54:13	Boot	
PC. xxx-net	2002/09/18/ Wed/21:56:13	Activate	Mailer-xxx
MD. xxx-net	2002/09/22/ Sun/21:57:52	PowerOn	<ContentID>
MD. xxx-net	2002/09/22/ Sun/21:57:55	Tuner	FM
MD. xxx-net	2002/09/21/ Sat/21:53:11	PowerOn	FM. osaka/ 2002092220000-2002092225700
MD. xxx-net	2002/09/21/ Sat/21:53:15	Tuner	FM
			FM. osaka/ 20020921220000-20020921225700

FIG. 14



```

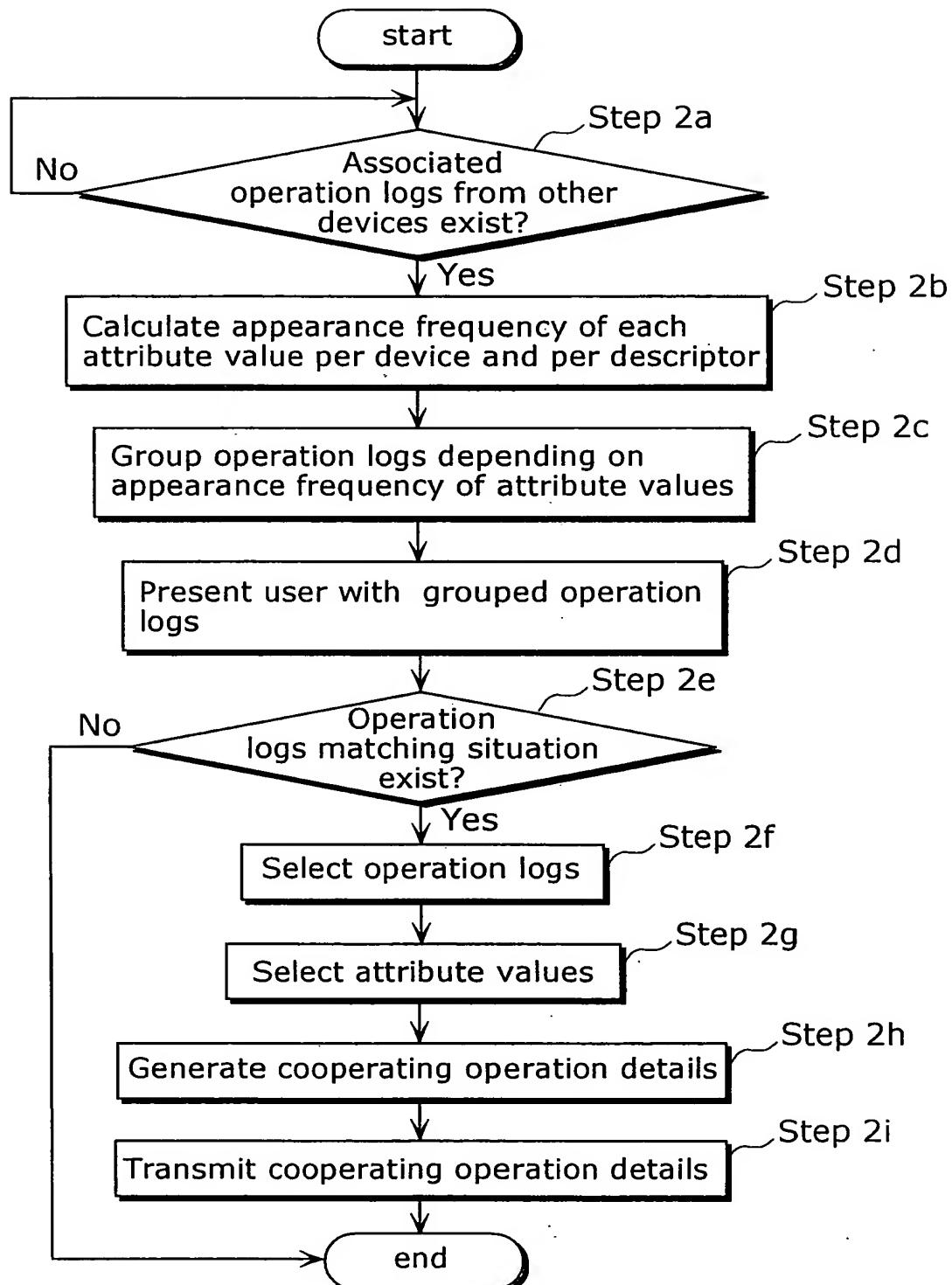
<CooperationRequest>
<DeviceID> PC. xxx-net </DeviceID>
<DevicePerformanceLevel> Device-L5 </DevicePerformanceLevel>

<Item>
<Time> Now </Time>
<Command> Boot </Command>
</Item>
<Item>
<Command> Activate </Command>
<ApplicationID> Mailer-xxx </ApplicationID>
</Item>

</CooperationRequest>

```

FIG. 15



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FIG. 16

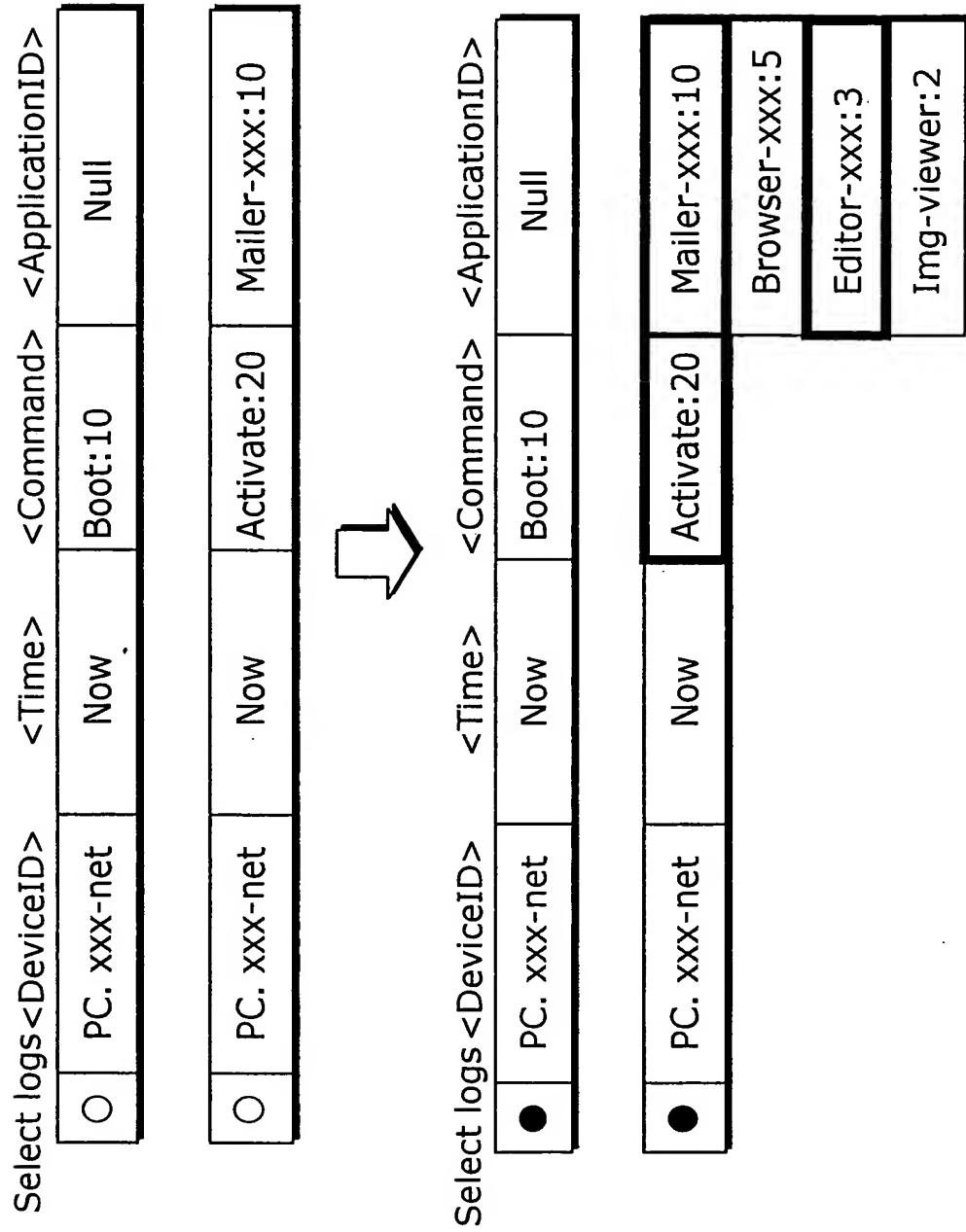
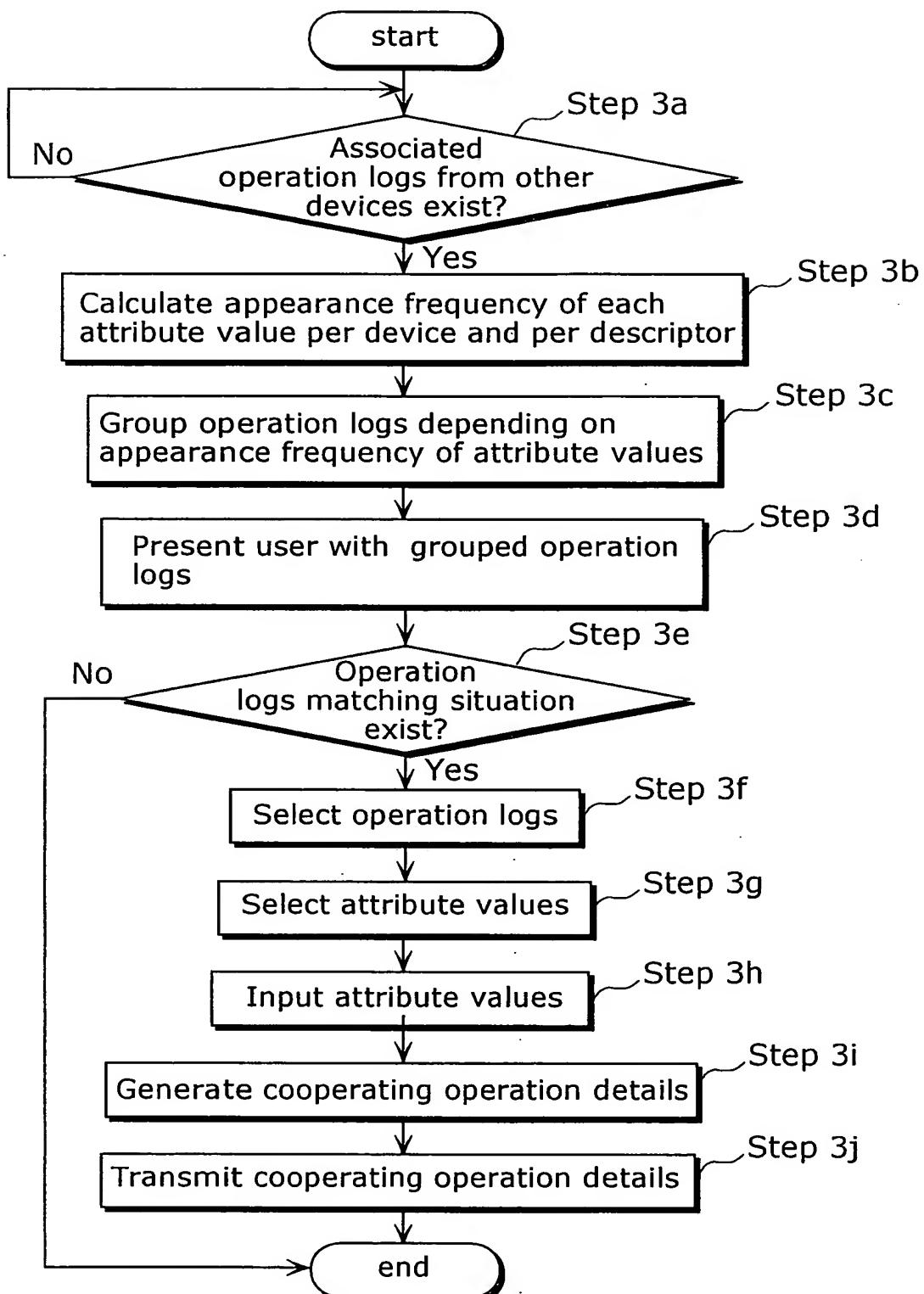


FIG. 17



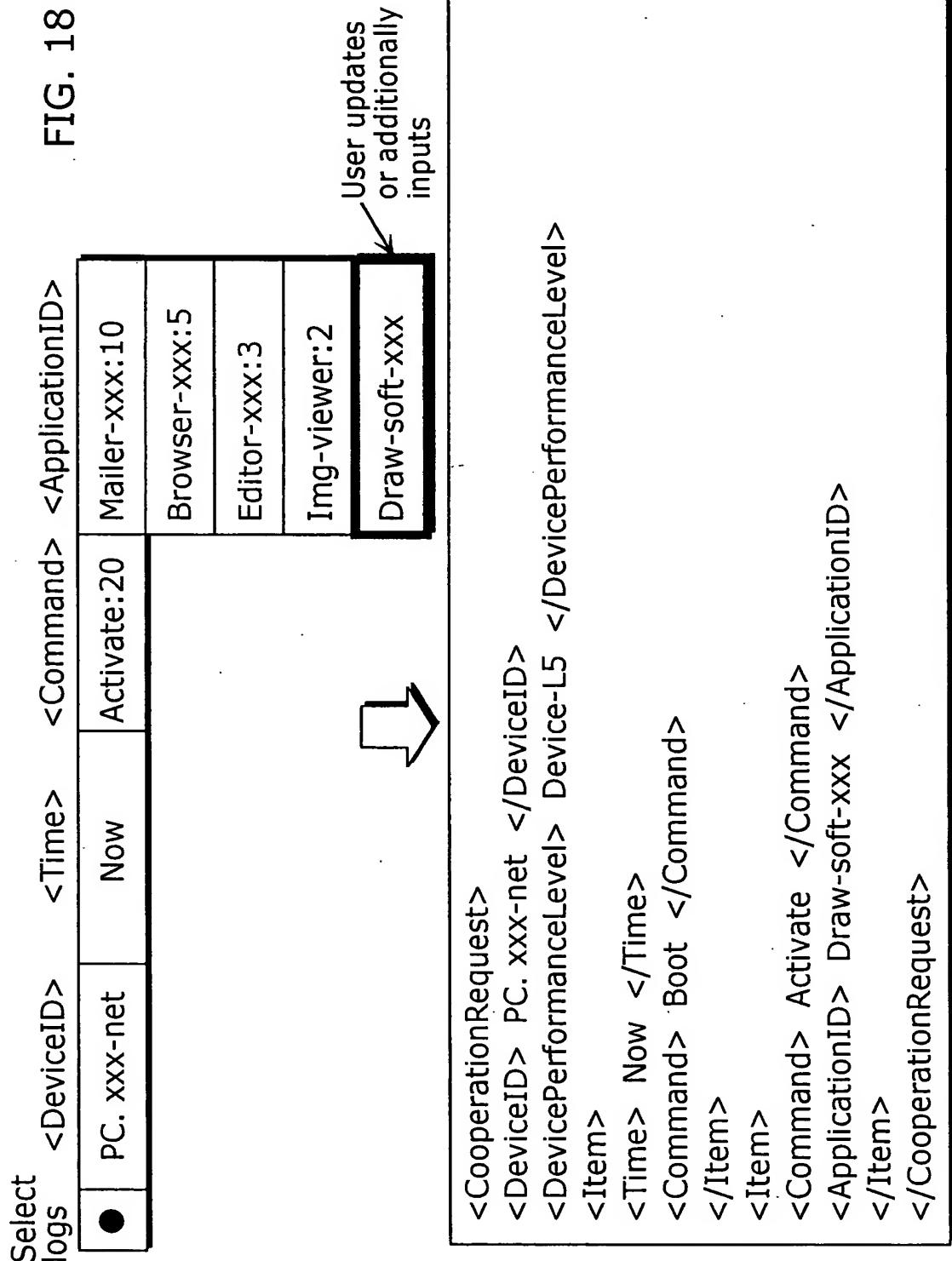


FIG. 19

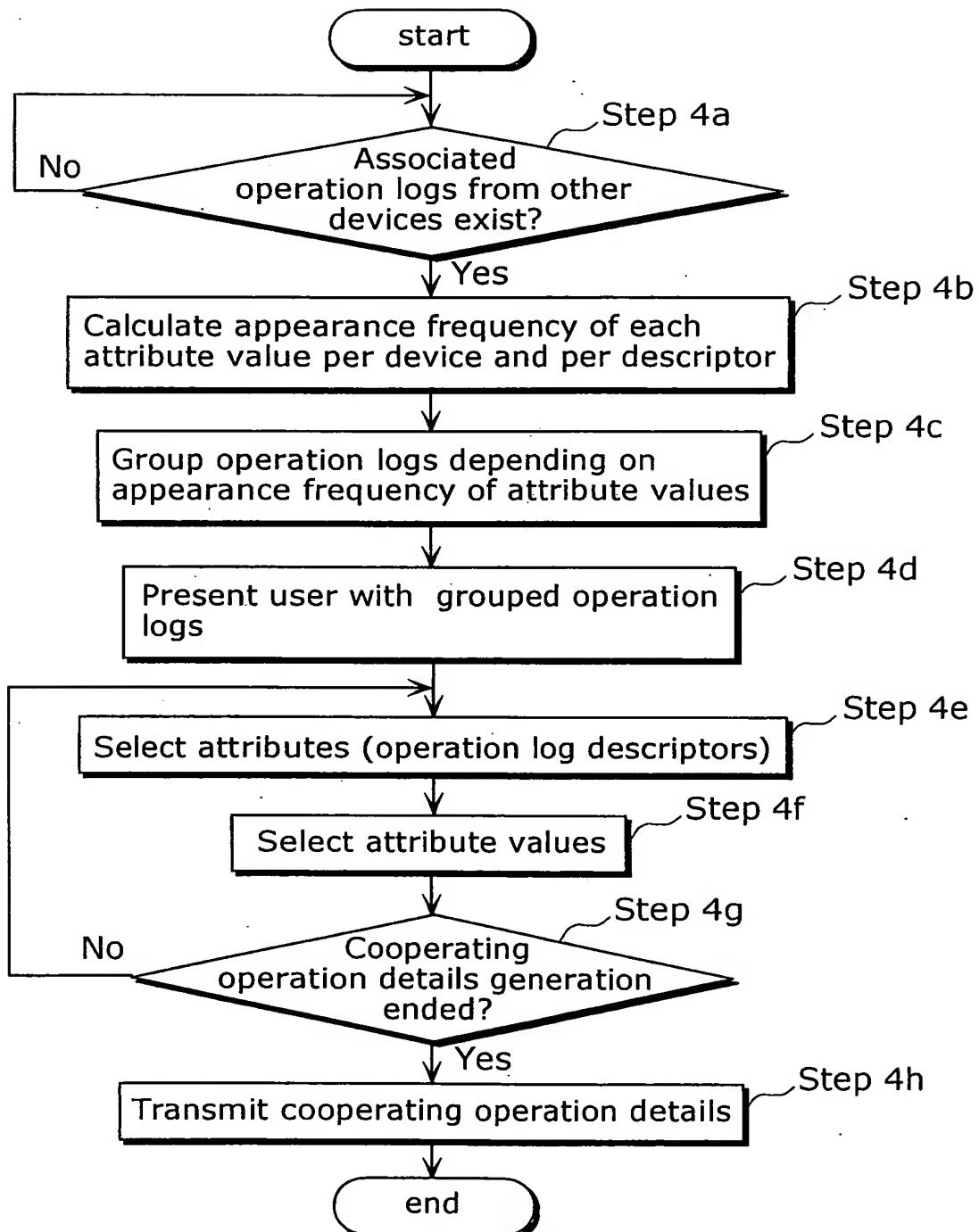


FIG. 20

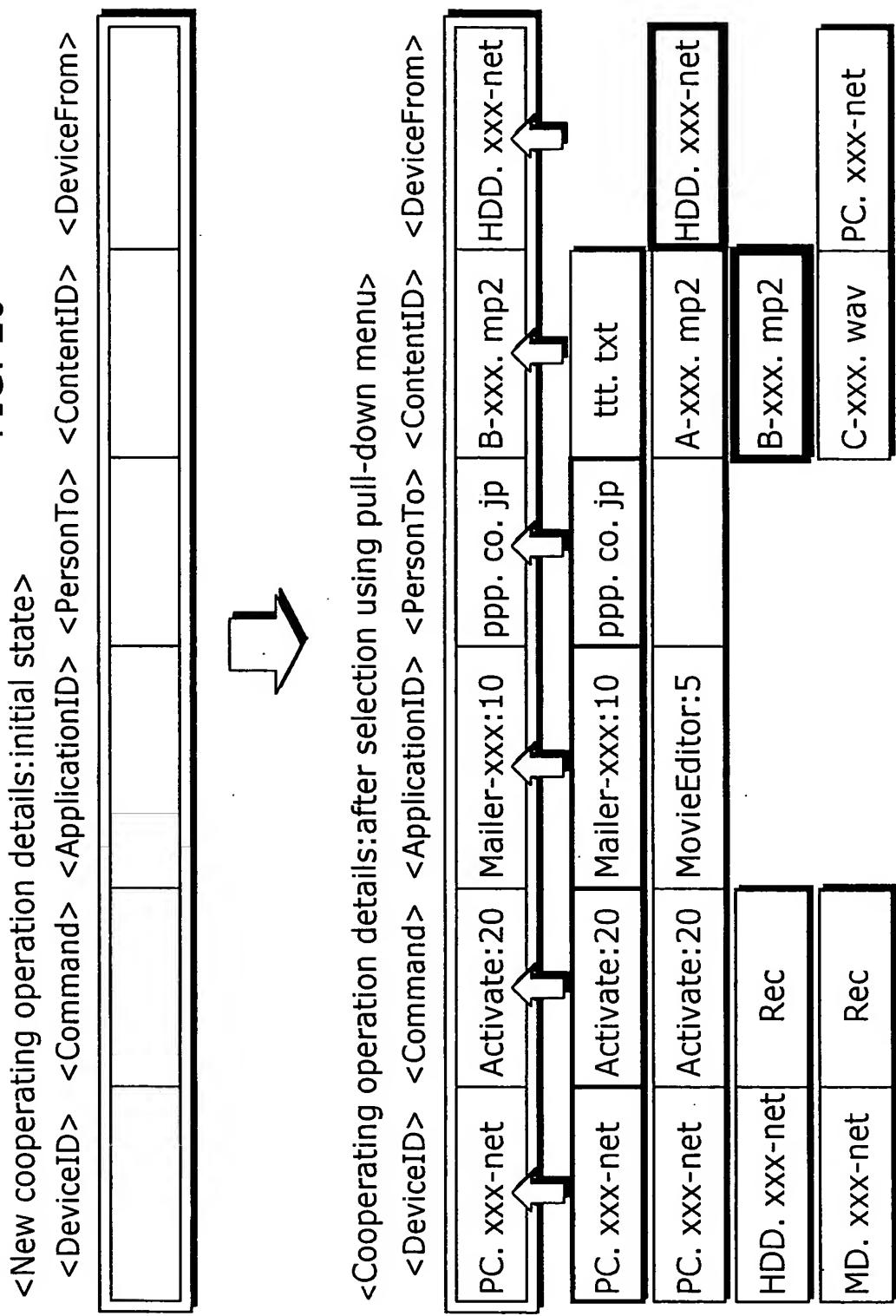


FIG. 21 1001 101

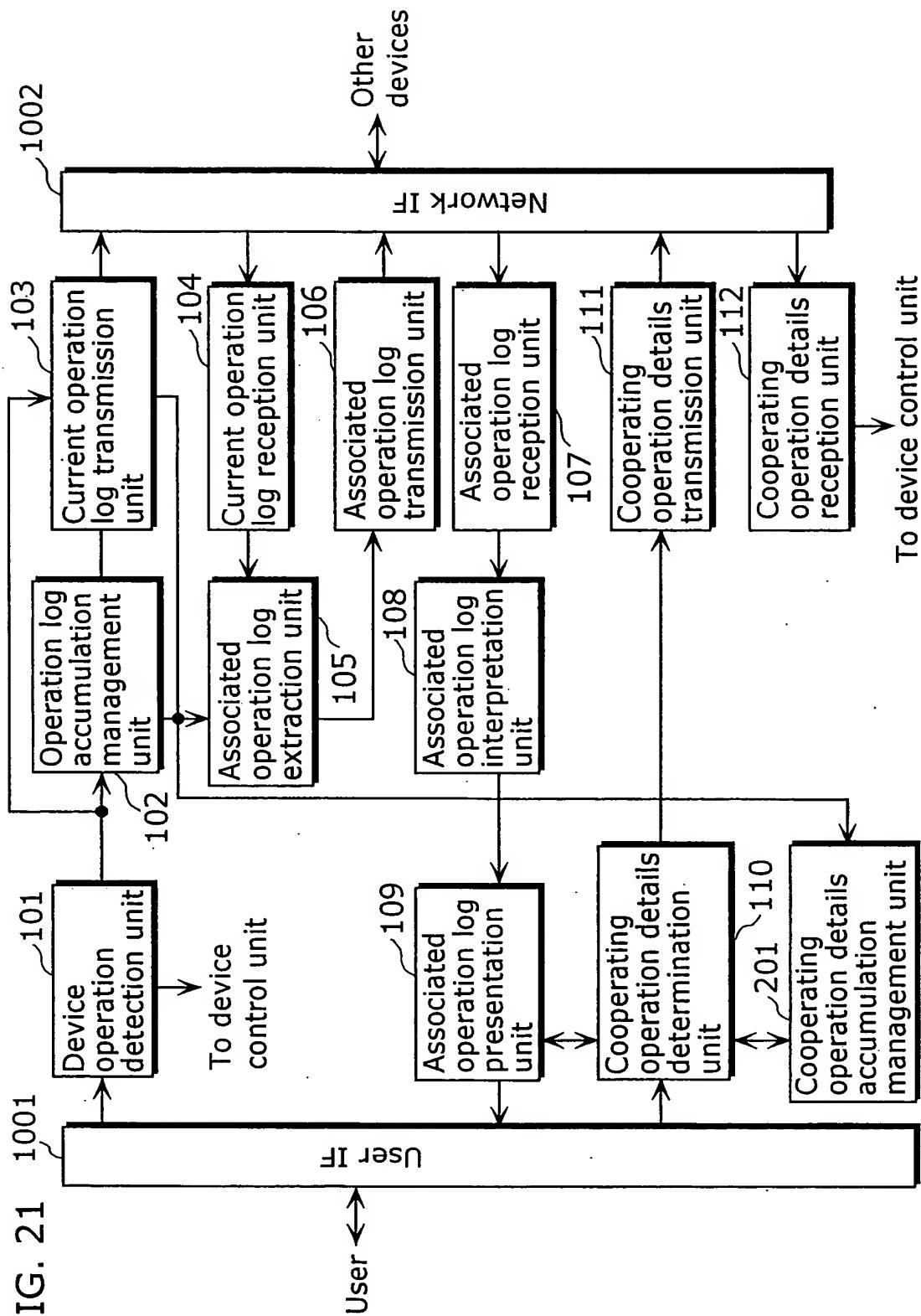


FIG. 22

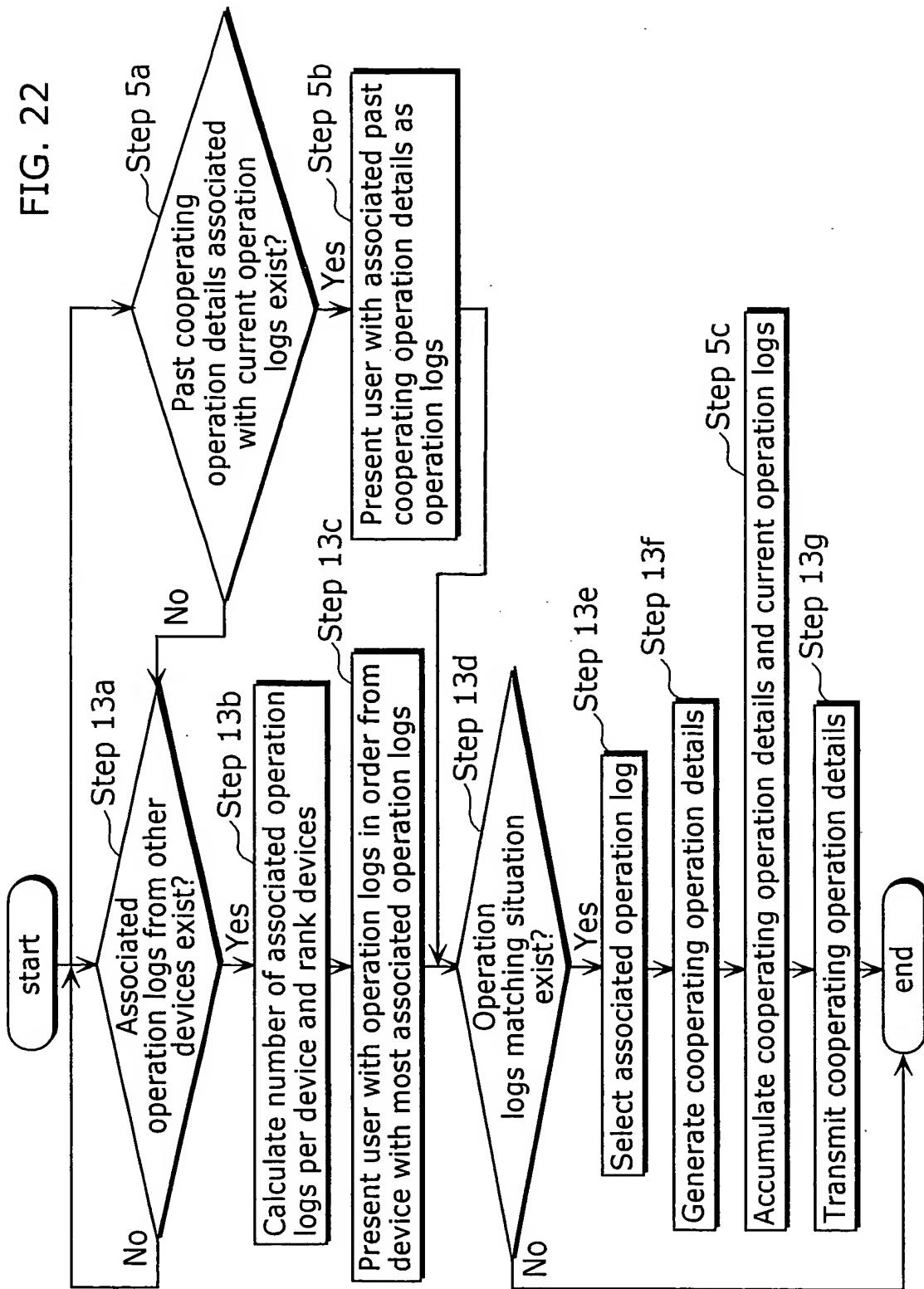


FIG. 23 100;

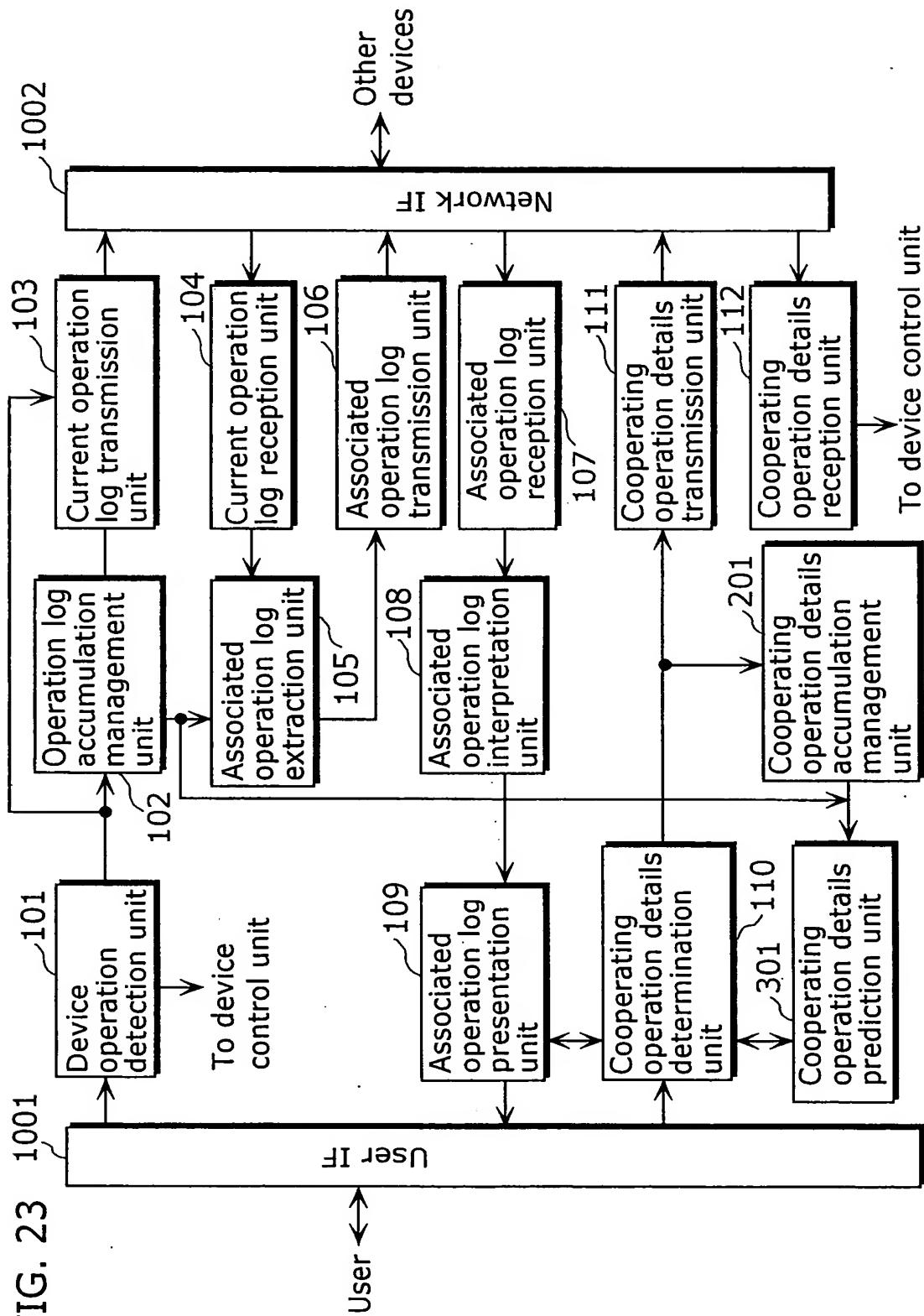
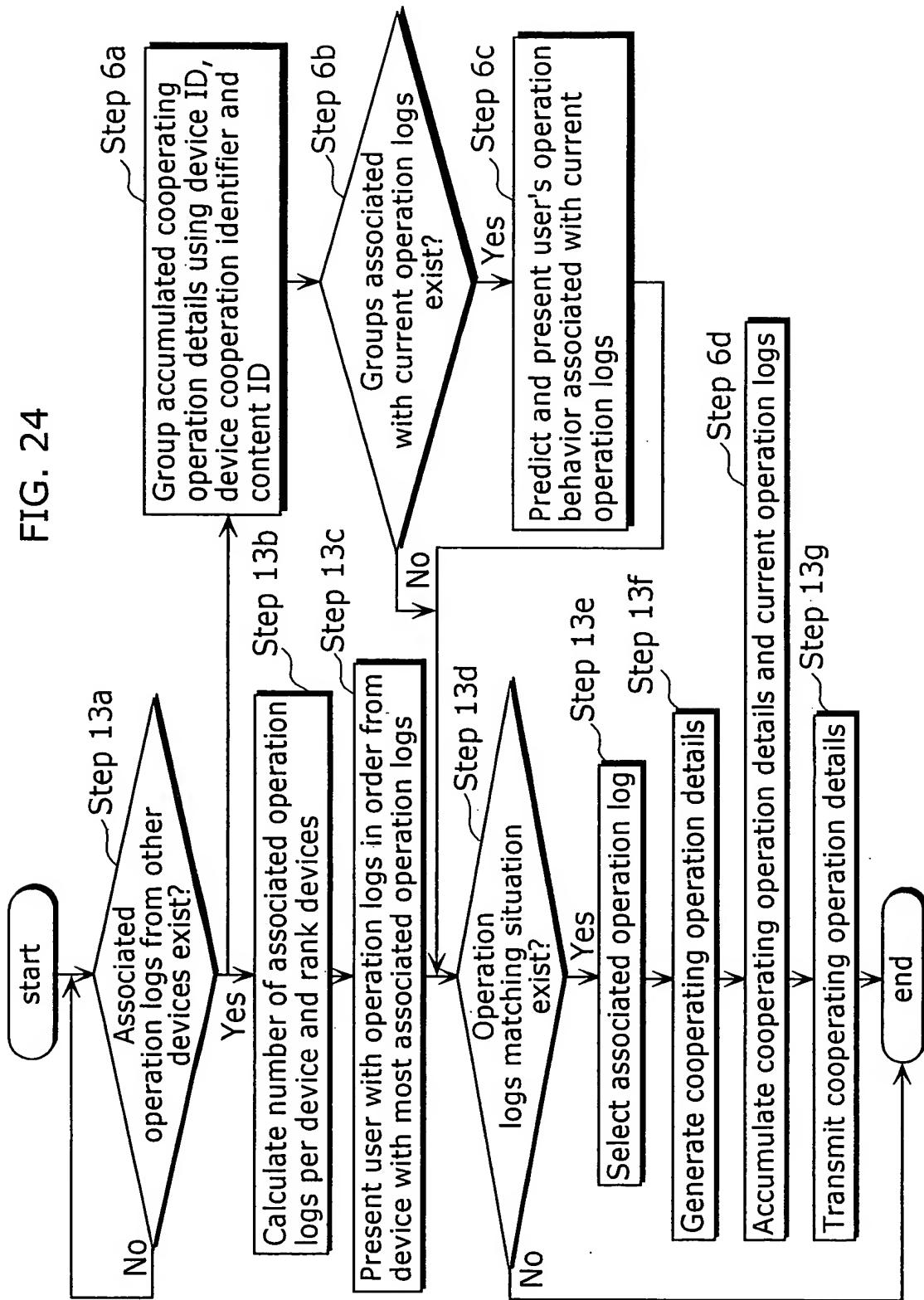
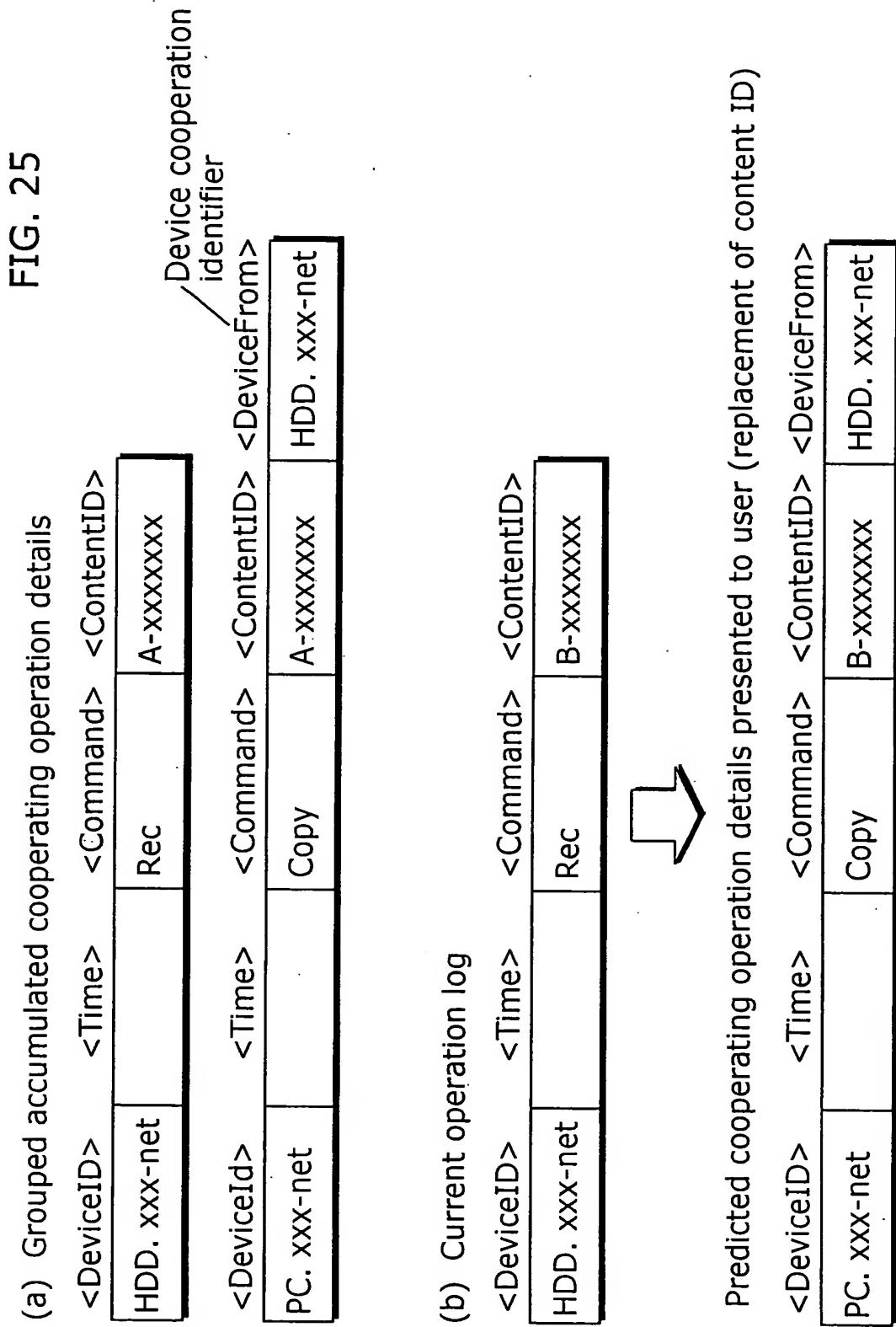


FIG. 24





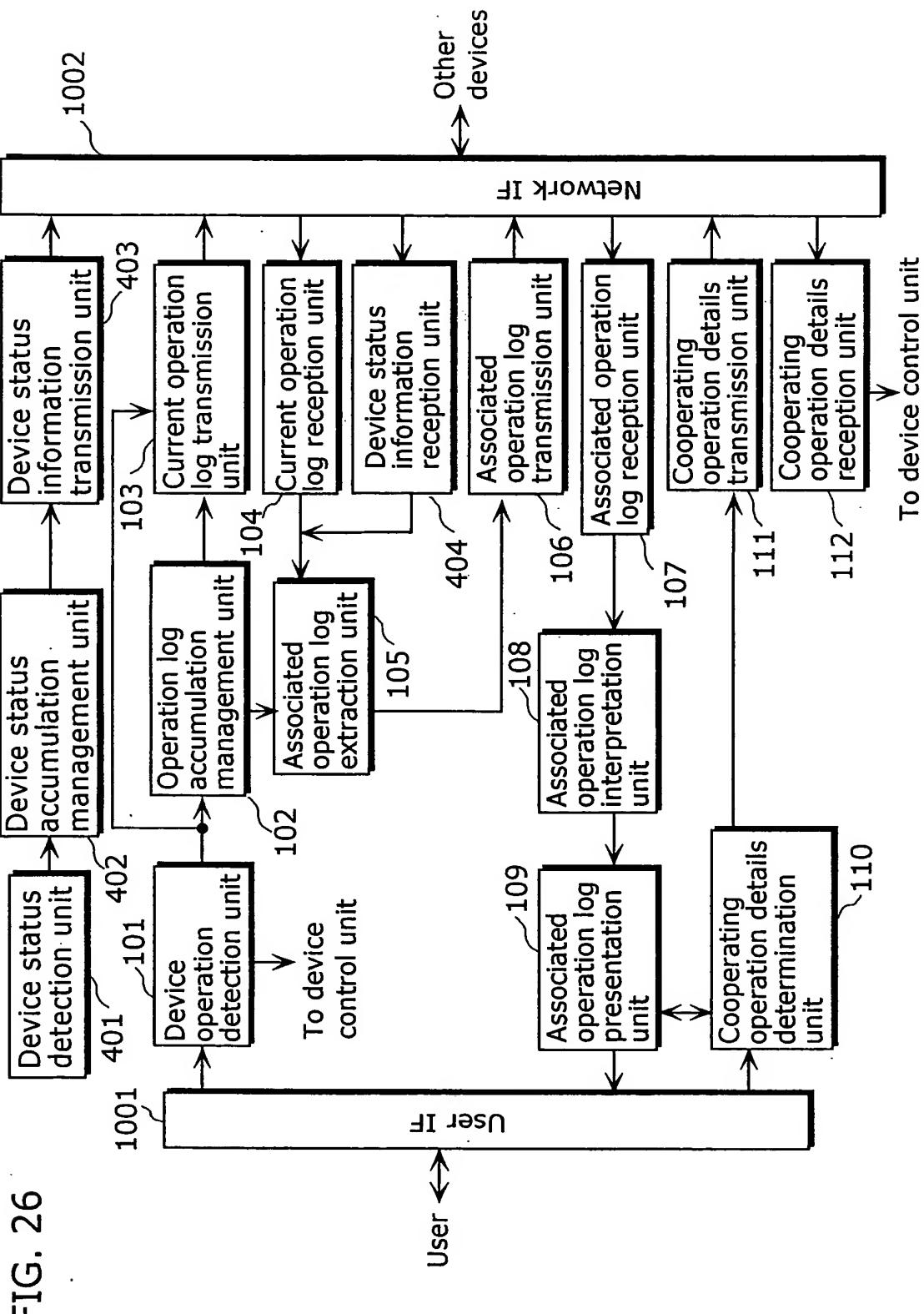


FIG. 27

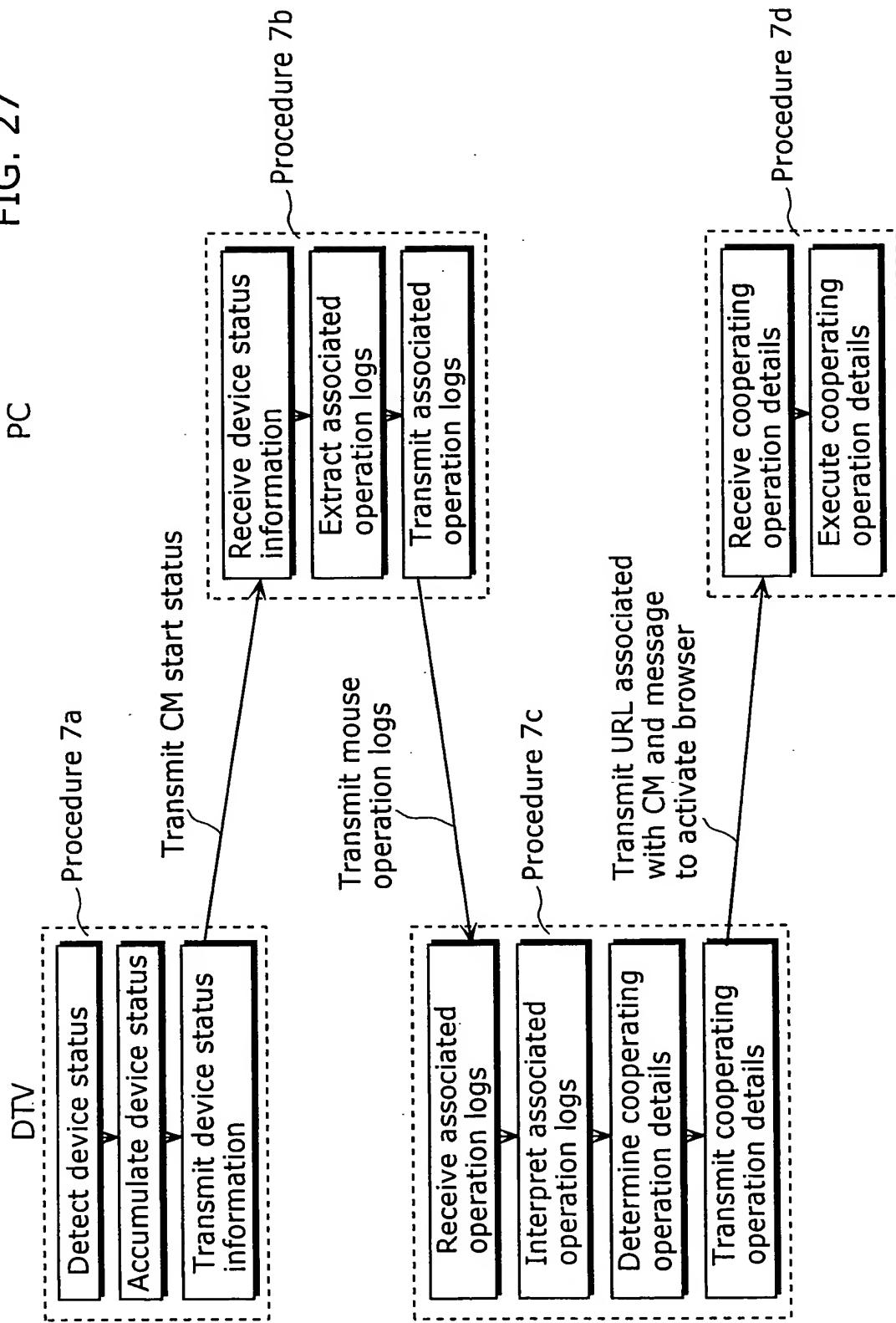


FIG. 28

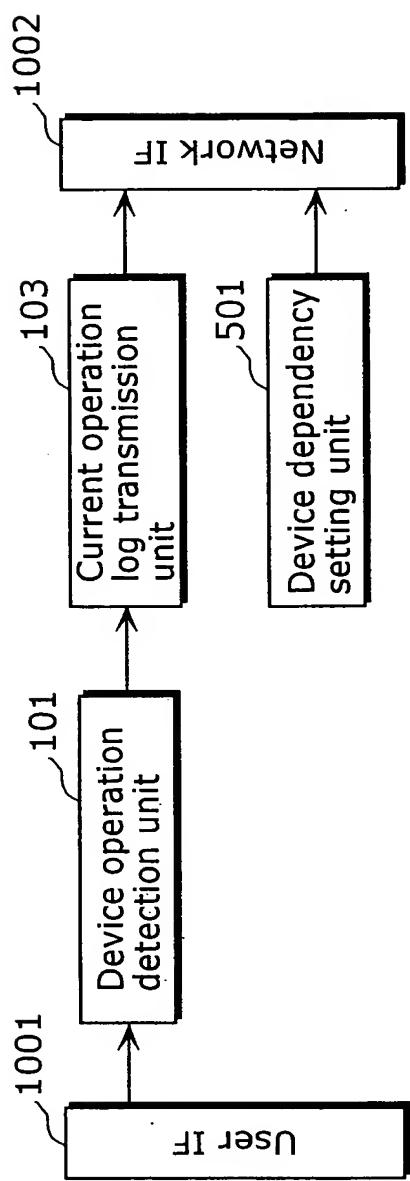


FIG. 29 10

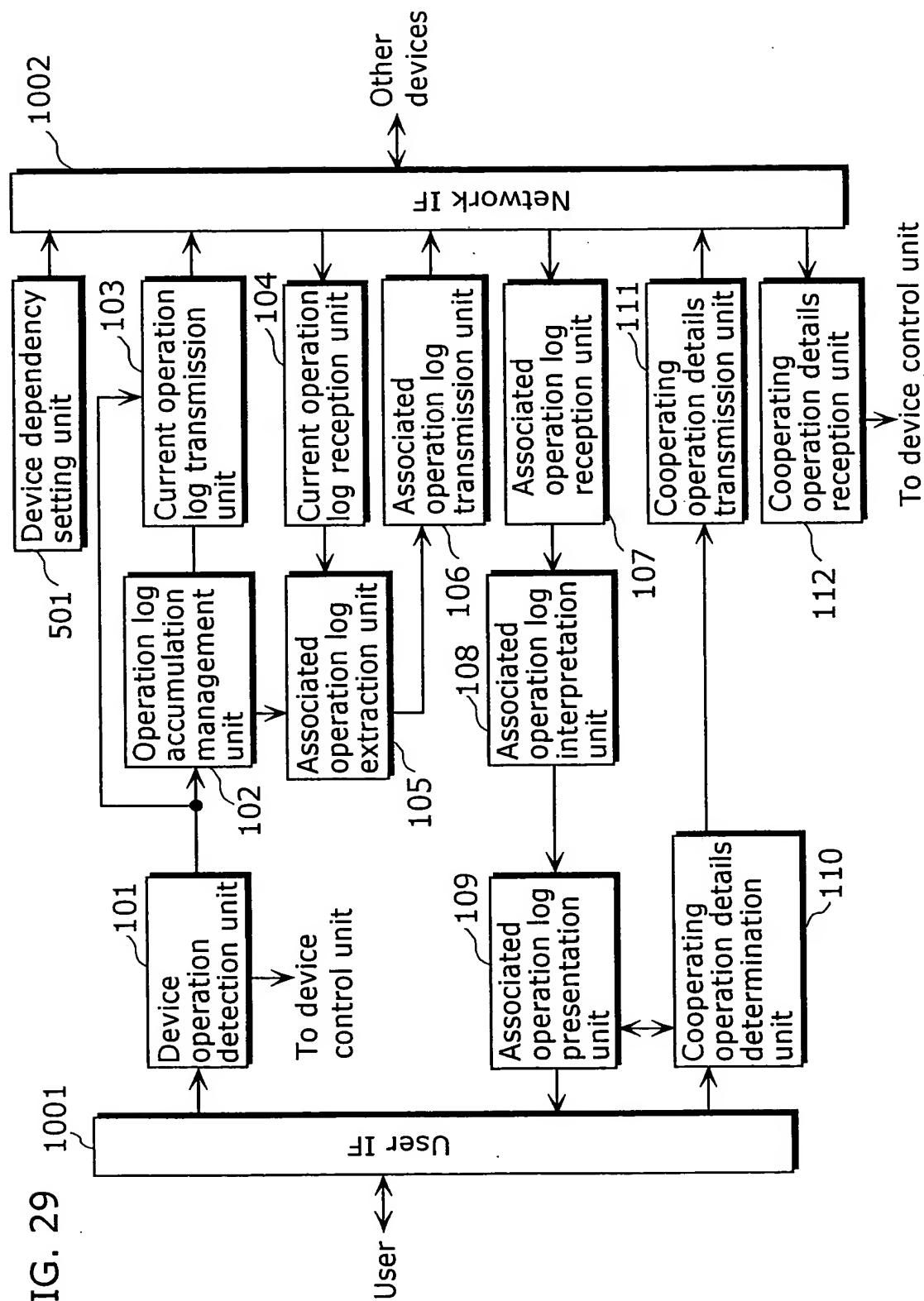


FIG. 30

